

WHAT IS CLAIMED IS:

1. A molding composition comprising:

- I. from 0.1 to less than 5 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
- a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid; and
- II. from more than 95 to 99.9 parts by weight of a thermoplastic polyester,
- where the total of the parts by weight of I and II is 100.

2. The molding composition as claimed in Claim 1, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

3. The molding composition as claimed in Claim 1, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

4. The molding composition as claimed in Claim 1, wherein the polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

5. The molding composition as claimed in Claim 1, wherein the polyamine contains at least 8 nitrogen atoms.

6. The molding composition as claimed in Claim 1, wherein the polyamine contains at least 11 nitrogen atoms.

7. The molding composition as claimed in Claim 1, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

8. The molding composition as claimed in Claim 1, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

9. The molding composition as claimed in Claim 1, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500 mmol/kg.

10. The molding composition as claimed in Claim 1, wherein the molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

11. The molding composition as claimed in Claim 1, wherein the molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

11. An injection molding composition comprising:

- I. from 0.1 to 20 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
 - a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid; and
 - II. from 80 to 99.9 parts by weight of a thermoplastic polyester,
- where the total of the parts by weight of I and II is 100.

12. The injection molding composition as claimed in Claim 11, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

13. The injection molding composition as claimed in Claim 11, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

14. The injection molding composition as claimed in Claim 11, wherein the polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

15. The injection molding composition as claimed in Claim 11, wherein the polyamine contains at least 8 nitrogen atoms.

16. The injection molding composition as claimed in Claim 11, wherein the polyamine contains at least 11 nitrogen atoms.

17. The injection molding composition as claimed in Claim 11, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

18. The injection molding composition as claimed in Claim 11, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

19. The injection molding composition as claimed in Claim 11, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500 mmol/kg.

20. The injection molding composition as claimed in Claim 11, wherein the injection molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

21. A molding composition comprising:

- A. from 40 to 99.5% by weight of a mixture made from
 - I. from 0.1 to 20 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
 - a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid, and
 - II. from 80 to 99.9 parts by weight of a thermoplastic polyester, where the total of the parts by weight of I and II is 100; and
- B. from 0.5 to 60% by weight of at least one particulate, laminar or fibrous additive selected from the group consisting of fillers, pigments, reinforcing materials, additives which give the molding composition antistatic properties or electrical conductivity, nucleating agents, and particulate flame retardants.

22. The molding composition as claimed in Claim 21, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

23. The molding composition as claimed in Claim 21, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

24. The molding composition as claimed in Claim 21, wherein the polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

25. The molding composition as claimed in Claim 21, wherein the polyamine contains at least 8 nitrogen atoms.

26. The molding composition as claimed in Claim 21, wherein the polyamine contains at least 11 nitrogen atoms.

27. The molding composition as claimed in Claim 21, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

28. The molding composition as claimed in Claim 21, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

29. The molding composition as claimed in Claim 21, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500 mmol/kg.

30. The molding composition as claimed in Claim 21, wherein the molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

31. A molding produced using the molding composition of Claim 1.

32. A molding that is a composite having two or more layers and comprising one or more layers made from the molding composition of Claim 1.

33. A molding consisting of the molding composition of Claim 1.

34. A molding produced using the molding composition of Claim 11.

35. A molding that is a composite having two or more layers and comprising one or more layers made from the injection molding composition of Claim 11.

36. A molding consisting of the injection molding composition of Claim 11.

37. A molding produced using the molding composition of Claim 21.

38. A molding that is a composite having two or more layers and comprising one or more layers made from the molding composition of Claim 21.

39. A molding consisting of the molding composition of Claim 21.

40. A method of making a molding composition, the method comprising adding a polyamine-polyamide graft copolymer to a polyester; and forming the molding composition of Claim 1.

41. A method of making an injection molding composition, the method comprising adding a polyamine-polyamide graft copolymer to a polyester; and forming the injection molding composition of Claim 11.

42. A method of making a molding composition, the method comprising adding a polyamine-polyamide graft copolymer to a polyester; and forming the molding composition of Claim 21.